



PCT

RAW SEQUENCE LISTING

DATE: 09/16/2003

PATENT APPLICATION: US/10/031,722A

TIME: 14:15:34

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Output Set: N:\CRF4\09162003\J031722A.raw

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 5 <120> TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HER2/NEU
 7 <130> FILE REFERENCE: MXI-160PC
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/031,722A
 C--> 10 <141> CURRENT FILING DATE: 2000-07-25
 12 <150> PRIOR APPLICATION NUMBER: USSN 60/146,313
 13 <151> PRIOR FILING DATE: 1999-07-29
 15 <150> PRIOR APPLICATION NUMBER: USSN 60/188,539
 16 <151> PRIOR FILING DATE: 1999-03-10
 18 <160> NUMBER OF SEQ ID NOS: 13
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 25 <213> ORGANISM: Homo sapiens
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 34 1 5 10 15
 36 tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc tat 96
 37 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 38 20 25 30
 40 gcc atg acc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg gtc 144
 41 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 42 35 40 45
 44 tca gct atc agt ggt agt ggt tat agc aca tac tac gca gac tcc gag 192
 45 Ser Ala Ile Ser Gly Ser Gly Tyr Ser Thr Tyr Tyr Ala Asp Ser Glu
 46 50 55 60
 48 aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
 49 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 50 65 70 75 80
 52 ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac tgt 288
 53 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 54 85 90 95
 56 gcg aaa ggg ttt cag tat ggt tcg ggg agt tat tat acc cac ttt gac 336
 57 Ala Lys Gly Phe Gln Tyr Gly Ser Gly Ser Tyr Tyr Thr His Phe Asp
 58 100 105 110
 60 tac tgg ggc cag gga acc ctg gtc acc gtc tcc tca 372
 61 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 62 115 120

Does Not Comply
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P7

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78 Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
79           35           40           45
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82           50           55           60
84 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
85   65           70           75           80
87 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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112 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
113           20           25           30
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117           35           40           45
119 tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc   192
120 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
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123 agt gga tct ggg aca gat ttc act ctc acc atc agc agc ctg cag cct   240
124 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
125   65           70           75           80
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128 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
129           85           90           95
131 act ttt ggc cag ggg acc aag ctg gag atc aaa   321
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146 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
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149 Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
150 35 40 45
152 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
153 50 55 60
155 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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181 20 25 30
183 gac ata cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
184 Asp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
185 35 40 45
187 gca gta ata tgg tat gat ggc agt aat aaa tac cat gca gac tcc gtg 192
188 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr His Ala Asp Ser Val
189 50 55 60
191 aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
192 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
193 65 70 75 80
195 ctg caa atg aac agt ctg aga gcc gag gac acg gct gtg tat tac tgt 288
196 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
197 85 90 95
199 gcg aga aac tat ggt ttg ggg agt tat tat aac tac ttt gac ttc tgg 336
200 Ala Arg Asn Tyr Gly Leu Gly Ser Tyr Tyr Asn Tyr Phe Asp Phe Trp
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218 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
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222 35 40 45
224 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr His Ala Asp Ser Val
225 50 55 60
227 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
228 65 70 75 80
230 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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252 1 5 10 15
254 gac aga gtc acc atc act tgt cgg gcg agt cat ggt att agc agc tgg 96
255 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Ser Ser Trp
256 20 25 30
258 tta gcc tgg tat cag cag aaa cca gag aaa gcc cct aag tcc ctg atc 144
259 Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
260 35 40 45
262 tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc 192
263 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
264 50 55 60
266 agt gga tct ggg aca gat ttc act ctc acc atc agc agc ctg cag cct 240
267 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
268 65 70 75 80
270 gaa gat ttt gca act tat tac tgc caa cag tat aat agt tac ccg tac 288
271 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr

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289 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Ser Ser Trp
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292 Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
293 35 40 45
295 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
296 50 55 60
298 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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320 1 5 10 15
322 tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt agc tat 96
323 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
324 20 25 30
326 gtc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
327 Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
328 35 40 45
330 gca gtt ata tgg tat gat gga agt aat aaa tac tat gca gac tcc gtg 192
331 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
332 50 55 60
334 aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
335 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
336 65 70 75 80
338 ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
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340 85 90 95

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MXI-160PC

- 12 -

Delete

RAW SEQUENCE LISTING ERROR SUMMARY
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DATE: 09/16/2003
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Seq#:13; Line(s) 551,552,553,554,555,556,557,558,559,560,561

VERIFICATION SUMMARY

DATE: 09/16/2003

PATENT APPLICATION: US/10/031,722A

TIME: 14:15:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09162003\J031722A.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:563 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1
L:566 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13